

ABSTRACT OF THE DISCLOSURE

In a preferred embodiment, linear stepper motor, comprising; an annular stator structure; an axially extending, cylindrical, permanent magnet shaft
5 extending coaxially through said annular stator structure; and the axially
extending, cylindrical, permanent magnet shaft having a smooth external surface
along a portion thereof with axially alternating N and S poles defined
circumferentially in an outer periphery of the portion of the axially extending,
cylindrical, permanent magnet shaft. The present invention also provides a
10 method of magnetizing the shaft of such a motor and a fixture and method of
manufacturing the fixture therefor.

T06720-6272860